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In re Klamath River (Klamath Tribe) | Hedden-Nicely

11-8-2008

Ex. 280-US-482

Unknown

Recommended Citation

Unknown, "Ex. 280-US-482" (2008). *In re Klamath River (Klamath Tribe)*. 214.
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Stream: Deming Creek
Site: 657
Date: 9/23/1990
Habitat: Run **Flow:** Low

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	5.90	105.90		100.00
HP1				
HP2				
HP3				
TP				
HP3				
HP2				
HP1				
BM				

Comment: No level loop due to no HPs.

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0.0	105.90	23.45	0.00	82.45	82.45	1.0
1-R				23.45	0.00	82.45		
2-L	8.2	8.6	105.90	23.11	0.00	82.79	82.69	
2-R	9			23.11	0.00	82.79		
3-L	11.4	12.3	105.90	22.95	0.00	82.95	82.95	0.7
3-R	13.2			22.95	0.00	82.95		

Ave Q= 0.8

Note:

WSE slope = 4.065%

(3) Meter and propeller ID for Velocity Correction

Meter ID: NA
Propeller ID: NA

Date: 4/10/1991
Habitat: Run **Flow:** Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	1.96	101.96		100.00
HP1				
HP2				
HP3				
TP				
HP3				
HP2				
HP1				
BM				

Comment: No level loop due to no HPs.

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
HydrC-L	-10.1	-10.1	101.96	19.53	0.00	82.43	82.46	
HydrC-R	-10.1			19.47	0.00	82.49		
1-L	0	0	101.96	19.45	0.00	82.51	82.51	1.5
1-R	0			19.46	0.00	82.50		
2-L	8.2	8.6	101.96	19.21	0.00	82.75	82.74	1.7
2-R	9			19.24	0.00	82.72		
3-L	11.4	12.3	101.96	18.98	0.00	82.98	82.99	2.1
3-R	13.2			18.96	0.00	83.00		

Ave Q= 1.8

Note:

WSE slope = 3.943%

(3) Meter and propeller ID for Velocity Correction

Meter ID: NA
Propeller ID: NA

Date: 5/18/1993
Habitat: Run **Flow:** High

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	0.22	100.22		100.00
HP1				
HP2				
HP3				
TP				
HP3				
HP2				
HP1				
BM				

Comment: No level loop due to no HPs.

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	100.22	16.72	0.00	83.50	83.46	
1-R	0			16.81	0.00	83.41		
2-L	8.2	8.6	100.22	16.67	0.00	83.55	83.59	26.9
2-R	9			16.60	0.00	83.62		
3-L	11.4	12.3	100.22	16.28	0.00	83.94	83.86	
3-R	13.2			16.45	0.00	83.77		

Ave Q= 26.9

Note:

WSE slope = 3.252%

(3) Meter and propeller ID for Velocity Correction

Meter ID: NA
Propeller ID: NA

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Stream:	Deming Creek	
Site:	657	
Transect:	HC	
Habitat:	Run	
Survey Date	HI (ft)	Q (cfs)
9/23/1990		
4/10/1991	101.96	
5/18/1993		

23-Sep-90

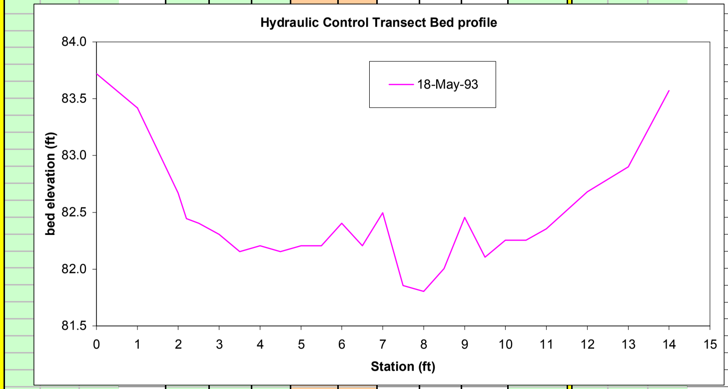
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate

10-Apr-91

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate
LWP	0.0	18.24	83.72									
	1.0	18.54	83.42									
	2.0	19.29	82.67									
LEW	2.2		82.45	0.06							#####	
	2.5		82.41	0.10							#####	
	3.0		82.31	0.20							#####	
	3.5		82.16	0.35							#####	
	4.0		82.21	0.30							#####	
	4.5		82.16	0.35							#####	
	5.0		82.21	0.30							#####	
	5.5		82.21	0.30							#####	
	6.0		82.41	0.10							#####	
	6.5		82.21	0.30							#####	
	7.0		82.50	0.01							#####	
	7.5		81.86	0.65							#####	
	8.0		81.81	0.70							#####	
	8.5		82.01	0.50							#####	
	9.0		82.46	0.05							#####	
	9.5		82.11	0.40							#####	
	10.0		82.26	0.25							#####	
	10.5		82.26	0.25							#####	
REW	11.0		82.36	0.15							#####	
	12.0	19.28	82.68									
	13.0	19.06	82.90									
RWP	14.0	18.39	83.57									

18-May-93

	Sta (ft)	Adj (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate



Stream: Deming Creek
Site: 657
Transect: 1
Habitat: Run

Survey Date	HI (ft)	Q (cfs)
9/23/1990	105.90	1.0
4/10/1991	101.96	1.5
5/18/1993	100.22	

23-Sep-90

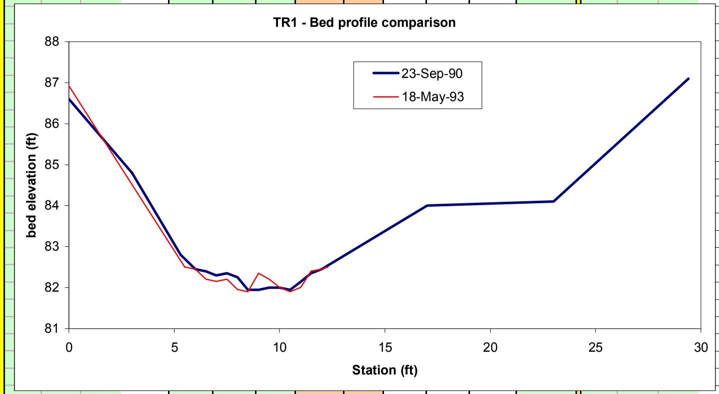
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate
LWP	0.0	19.30	86.60									1.1
	3.0	21.10	84.80									1.1
	5.3	23.10	82.80									1.1
LWE	6.0	23.45	82.45	0.00	0.00		0.00		0.00		0.00	6.6
	6.5		82.40	0.05	0.00		0.00		0.00		0.00	6.5
	7.0		82.30	0.15	0.00		0.00		0.00		0.00	6.5
	7.5		82.35	0.10	0.00		0.00		0.00		0.00	6.5
	8.0		82.25	0.20	0.09		0.09		0.09		0.01	6.5
	8.5		81.95	0.50	1.01		1.01		1.01		0.25	5.3
	9.0		81.95	0.50	1.59		1.59		1.59		0.40	6.5
	9.5		82.00	0.45	0.46		0.46		0.46		0.10	6.5
	10.0		82.00	0.45	0.43		0.43		0.43		0.10	5.3
	10.5		81.95	0.50	0.42		0.42		0.42		0.11	5.3
	11.0		82.15	0.30	0.18		0.18		0.18		0.03	5.3
	11.5		82.35	0.10	0.00		0.00		0.00		0.00	5.4
RWE	12.0		82.45	0.00	0.00		0.00		0.00		0.00	6.3
	17.0	21.90	84.00									1.1
	23.0	21.80	84.10									1.1
RWP	29.4	18.80	87.10									1.1

10-Apr-91

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate
LWP	0.0	15.04	86.92									1.1
LWE	5.5		82.51	0.00	0.00		0.00		0.00		0.00	1.1
	6.0		82.46	0.05	0.00		0.00		0.00		0.00	6.6
	6.5		82.21	0.30	0.49		0.49		0.49		0.07	6.5
	7.0		82.16	0.35	0.34		0.34		0.34		0.06	6.5
	7.5		82.21	0.30	0.73		0.73		0.73		0.11	6.5
	8.0		81.96	0.55	1.03		1.03		1.03		0.28	6.5
	8.5		81.91	0.60	0.82		0.82		0.82		0.25	5.3
	9.0		82.36	0.15	1.38		1.38		1.38		0.10	6.5
	9.5		82.21	0.30	1.11		1.11		1.11		0.17	6.5
	10.0		82.01	0.50	0.22		0.22		0.22		0.06	5.3
	10.5		81.91	0.60	0.72		0.72		0.72		0.22	5.3
	11.0		82.01	0.50	0.80		0.80		0.80		0.20	5.3
	11.5		82.41	0.10	0.27		0.27		0.27		0.01	5.4
	12.0		82.46	0.05	0.00		0.00		0.00		0.00	6.3
RWE	12.3		82.51	0.00	0.00		0.00		0.00		0.00	6.3
RWP	29.2											1.1

18-May-93

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate



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Stream:	Deming Creek
Site:	657
Transect:	2
Habitat:	Run

Survey Date	HI (ft)	Q (cfs)
9/23/1990	105.90	
4/10/1991	101.96	1.7
5/18/1993	100.22	26.9

23-Sep-90

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate
LWP	0.0	19.10	86.80									1.1
	4.0	19.60	86.30									1.1
	8.0	22.70	83.20									7.6
LWE	9.0	23.11	82.79	0.00	0.00		0.00		0.00		0.00	7.7
	9.5		82.49	0.20	1.04		1.04		1.04		0.05	5.6
	10.0		82.64	0.05							#####	6.6
	10.5		82.49	0.20	0.00		0.00		0.00		0.00	6.7
	11.0		82.54	0.15			0.00		0.00		0.00	6.7
	11.5		82.54	0.15							#####	6.7
	12.0		82.49	0.20							#####	6.6
	12.5		82.68	0.01							#####	6.6
	13.0		82.59	0.10							#####	6.6
	13.5		82.54	0.15							#####	6.7
	14.0		82.49	0.20							#####	6.6
	14.5		82.59	0.10							#####	6.6
	15.0		82.29	0.40							#####	6.6
	15.5		82.39	0.30							#####	6.6
	16.0		82.59	0.10							#####	6.5
RWE	16.5	23.11	82.79	0.00							#####	6.5
	18.0	22.30	83.60									1.1
	26.0	21.60	84.30									1.1
RWP	34.8	18.50	87.40									1.1
	39.0	9.70	96.20									1.1

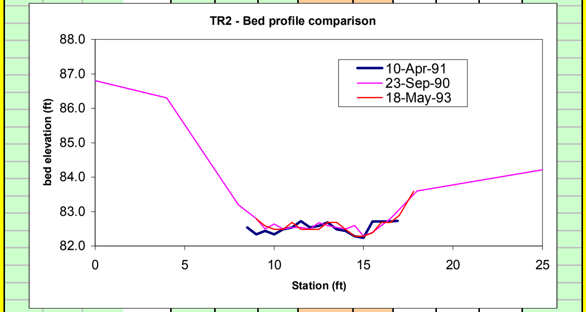
Swoffer won't measure

10-Apr-91

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate
LWP	0.0	14.94	87.02									
LEW	8.5		82.54	0.20	0.00		0.00		0.00		0.00	7.6
	9.0		82.34	0.40	0.03		0.03		0.03		0.01	7.7
	9.5		82.44	0.30	1.03		1.03		1.03		0.15	5.6
	10.0		82.34	0.40	1.38		1.38		1.38		0.28	6.6
	10.5		82.49	0.25	-0.09		-0.09		-0.09		-0.01	6.7
	11.0		82.54	0.20	1.53		1.53		1.53		0.15	6.7
	11.5		82.73	0.01	0.10		0.10		0.10		0.00	6.7
	12.0		82.54	0.20	1.48		1.48		1.48		0.15	6.6
	12.5		82.59	0.15	2.10		2.10		2.10		0.16	6.6
	13.0		82.69	0.05	1.00		1.00		1.00		0.03	6.6
	13.5		82.49	0.25	0.44		0.44		0.44		0.06	6.7
	14.0		82.44	0.30	0.38		0.38		0.38		0.06	6.6
	14.5		82.29	0.45	1.24		1.24		1.24		0.28	6.6
	15.0		82.24	0.50	1.50		1.50		1.50		0.38	6.6
	15.5		82.72	0.02	0.10		0.10		0.10		0.00	6.6
	16.0		82.72	0.02	0.00		0.00		0.00		0.00	6.5
	16.5		82.72	0.02	0.10		0.10		0.10		0.00	6.5
REW	16.9		82.74	0.00	0.00		0.00		0.00		0.00	6.5
RWP	35.8											

18-May-93

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate
LWP	0.0											
LEW	9.0		82.79	0.80	0.29		0.29		0.29		0.06	7.7
	9.5		82.59	1.00	1.36		1.36		1.36		0.68	5.6
	10.0		82.49	1.10	2.58		2.58		2.58		1.42	6.6
	10.5		82.49	1.10	2.60		2.60		2.60		1.43	6.7
	11.0		82.69	0.90	2.02		2.02		2.02		0.91	6.7
	11.5		82.49	1.10	2.21		2.21		2.21		1.22	6.7
	12.0		82.49	1.10	1.06		1.06		1.06		0.58	6.6
	12.5		82.49	1.10	3.50		3.50		3.50		1.93	6.6
	13.0		82.69	0.90	5.16		5.16		5.16		2.32	6.6
	13.5		82.69	0.90	2.15		2.15		2.15		0.97	6.7
	14.0		82.49	1.10	1.20		1.20		1.20		0.66	6.6
	14.5		82.29	1.30	4.94		4.94		4.94		3.21	6.6
	15.0		82.29	1.30	6.21		6.21		6.21		4.04	6.6
	15.5		82.39	1.20	5.07		5.07		5.07		3.04	6.6
	16.0		82.69	0.90	5.40		5.40		5.40		2.43	6.5
	16.5		82.69	0.90	3.96		3.96		3.96		1.78	6.5
	17.0		82.89	0.70	0.49		0.49		0.49		0.22	6.5
REW	17.8		83.59	0.00	0.00		0.00		0.00		0.00	6.5


TR2 - Bed profile comparison

Stream: Deming Creek
Site: 657
Transect: 3
Habitat: Run

Survey Date	HI (ft)	Q (cfs)
9/23/1990	105.90	0.7
4/10/1991	101.96	2.1
5/18/1993	100.22	

23-Sep-90

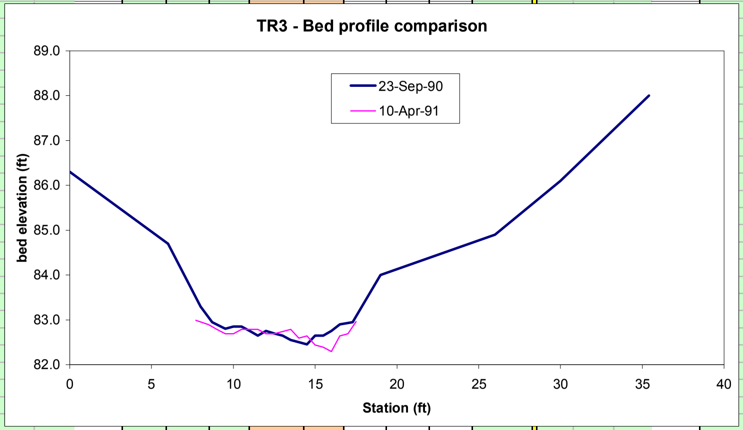
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate
LWP	0.0	19.60	86.30									1.1
	6.0	21.20	84.70									1.1
	8.0	22.60	83.30									1.1
LWE	8.7	22.95	82.95	0.10	0.00		0.00		0.00		0.00	1.3
	9.5		82.80	0.15	0.36		0.36		0.36		0.04	1.3
	10.0		82.85	0.10	0.16		0.16		0.16		0.01	5.3
	10.5		82.85	0.10	0.00		0.00		0.00		0.00	5.3
	11.0		82.75	0.20	0.35		0.35		0.35		0.04	4.5
	11.5		82.65	0.30	0.69		0.69		0.69		0.10	4.3
	12.0		82.75	0.20	0.75		0.75		0.75		0.08	4.3
	12.5		82.70	0.25	0.62		0.62		0.62		0.08	3.4
	13.0		82.65	0.30	0.00		0.00		0.00		0.00	3.3
	13.5		82.55	0.40	0.00		0.00		0.00		0.00	3.5
	14.0		82.50	0.45	0.55		0.55		0.55		0.12	5.3
	14.5		82.45	0.50	0.00		0.00		0.00		0.00	5.3
	15.0		82.65	0.30	0.53		0.53		0.53		0.08	6.5
	15.5		82.65	0.30	0.88		0.88		0.88		0.13	6.5
	16.0		82.75	0.20	0.11		0.11		0.11		0.01	6.5
	16.5		82.90	0.05	0.00		0.00		0.00		0.00	6.6
RWE	17.3	22.95	82.95	0.00	0.00		0.00		0.00		0.00	5.1
	19.0	21.90	84.00									1.1
	26.0	21.00	84.90									1.1
	30.0	19.80	86.10									1.1
RWP	35.4	17.90	88.00									1.1

10-Apr-91

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate
LWP	0.0	15.20	86.76									1.1
LEW	7.7		82.99	0.00	0.00		0.00		0.00		0.00	1.1
	8.5		82.89	0.10	0.00		0.00		0.00		0.00	1.3
	9.0		82.79	0.20	0.18		0.18		0.18		0.02	1.3
	9.5		82.69	0.30	0.67		0.67		0.67		0.10	1.3
	10.0		82.69	0.30	0.37		0.37		0.37		0.06	5.3
	10.5		82.79	0.20	0.44		0.44		0.44		0.04	5.3
	11.0		82.79	0.20	0.51		0.51		0.51		0.05	4.5
	11.5		82.79	0.20	0.69		0.69		0.69		0.07	4.3
	12.0		82.69	0.30	1.08		1.08		1.08		0.16	4.3
	12.5		82.69	0.30	1.33		1.33		1.33		0.20	3.4
	13.0		82.74	0.25	0.13		0.13		0.13		0.02	3.3
	13.5		82.79	0.20	0.15		0.15		0.15		0.02	3.5
	14.0		82.59	0.40	0.38		0.38		0.38		0.08	5.3
	14.5		82.64	0.35	0.75		0.75		0.75		0.13	5.3
	15.0		82.44	0.55	1.38		1.38		1.38		0.38	6.5
	15.5		82.39	0.60	0.91		0.91		0.91		0.27	6.5
	16.0		82.29	0.70	0.70		0.70		0.70		0.25	6.5
	16.5		82.64	0.35	0.85		0.85		0.85		0.15	6.6
	17.0		82.69	0.30	0.48		0.48		0.48		0.07	5.1
REW	17.5		82.96	0.03	0.00		0.00		0.00		0.00	5.1
RWP	35.2											1.1

18-May-93

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	Angle (deg)	q (cfs)	substrate



Ex. 280-US-482
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         Deming Creek SP17 04/10/91
RUN                         MID                                    TRANSECT
IOC       110110000000100010000O
QARD  0.84
QARD  1.00
QARD  1.10
QARD  1.20
QARD  1.30
QARD  1.40
QARD  1.50
QARD  1.60
QARD  1.70
QARD  1.75
QARD  1.80
QARD  1.90
QARD  2.00
QARD  2.20
QARD  2.50
QARD  2.80
QARD  3.20
QARD  3.70
QARD  4.30
QARD  5.00
QARD  6.00
QARD  7.00
QARD  8.50
QARD  10.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.0
QARD  24.0
QARD  26.9
XSEC1000.0      0.00 1.0     82.21   0.0394
    1000.0  0.086.60  3.084.80  5.382.80  5.582.51  6.082.46  6.582.21
    1000.0  7.082.16  7.582.21  8.081.96  8.581.91  9.082.36  9.582.21
    1000.0 10.082.01 10.581.91 11.082.01 11.582.41 12.082.46 12.382.51
    1000.0 17.084.00 23.084.10 29.487.10
NS  1000.0       1.1       1.1       1.1 0.3   1.1 0.27  6.6       6.5
NS  1000.0       6.5       6.5       6.5       5.3 .09   6.5       6.5
NS  1000.0 0.35  5.3       5.3       5.3       5.4 0.26  6.3 0.3   6.3
NS  1000.0       1.1       1.1       1.1
CAL11000.0     82.51      1.75
VEL11000.0              9 0.000.001 0.49 0.34 0.73 1.03 0.82 1.38 1.11
VEL11000.0 0.22 0.72 0.80 0.270.001 0.00
CAL21000.0     82.45      0.84
VEL21000.0
VEL21000.0
CAL31000.0     83.46      26.9
VEL31000.0
VEL31000.0
ENDJ
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         Deming Creek SP17 04/10/91
RUN                         MID                                    TRANSECT
IOC       1101100000001000100000
QARD  0.84
QARD  1.00
QARD  1.10
QARD  1.20
QARD  1.30
QARD  1.40
QARD  1.50
QARD  1.60
QARD  1.70
QARD  1.75
QARD  1.80
QARD  1.90
QARD  2.00
QARD  2.20
QARD  2.50
QARD  2.80
QARD  3.20
QARD  3.70
QARD  4.30
QARD  5.00
QARD  6.00
QARD  7.00
QARD  8.50
QARD  10.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.0
QARD  24.0
QARD  26.9
XSEC1000.0      0.00 1.0     82.51   0.0394
    1000.0  0.086.80  4.086.30  8.582.54  9.082.34  9.582.44 10.082.34
    1000.0 10.582.49 11.082.54 11.582.73 12.082.54 12.582.59 13.082.69
    1000.0 13.582.49 14.082.44 14.582.29 15.082.24 15.582.72 16.082.72
    1000.0 16.582.72 16.982.74 18.083.60 26.084.30 34.887.40 39.096.20
NS  1000.0       1.1       1.1       7.6 .2    7.7 .15   5.6       6.6
NS  1000.0 .2    6.7       6.7 .08   6.7       6.6 .06   6.6 .06   6.6
NS  1000.0 .2    6.7 .28   6.6       6.6       6.6 .15   6.6 .215  6.5
NS  1000.0       6.5       6.5       1.1       1.1       1.1       1.1
CAL11000.0     82.74      1.75
VEL11000.0          0.001 0.031.030 1.38-0.09 1.53 0.10 1.48 2.10 1.00
VEL11000.0 0.44 0.38 1.24 1.500.1000.001 0.10 0.00
CAL21000.0     82.69      0.84
VEL21000.0
VEL21000.0
CAL31000.0     83.59      26.9
VEL31000.0
VEL31000.0
ENDJ
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         Deming Creek SP17 04/10/91
RUN                         MID                                    TRANSECT 3
IOC       1101100000001000100000
QARD  0.84
QARD  1.00
QARD  1.10
QARD  1.20
QARD  1.30
QARD  1.40
QARD  1.50
QARD  1.60
QARD  1.70
QARD  1.75
QARD  1.80
QARD  1.90
QARD  2.00
QARD  2.20
QARD  2.50
QARD  2.80
QARD  3.20
QARD  3.70
QARD  4.30
QARD  5.00
QARD  6.00
QARD  7.00
QARD  8.50
QARD  10.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.0
QARD  24.0
QARD  26.9
XSEC1000.0      0.00 1.0     82.81   0.0394
    1000.0  0.086.30  6.084.70  7.782.99  8.582.89  9.082.79  9.582.69
    1000.0 10.082.69 10.582.79 11.082.79 11.582.79 12.082.69 12.582.69
    1000.0 13.082.74 13.582.79 14.082.59 14.582.64 15.082.44 15.582.39
    1000.0 16.082.29 16.582.64 17.082.69 17.582.96 19.084.00 26.084.90
    1000.0 30.086.10 35.488.00
NS  1000.0       1.1       1.1 .6    1.1 .6    1.3 .4    1.3       1.3
NS  1000.0 .30   5.3       5.3       4.5       4.3       4.3 .105  3.4
NS  1000.0 .3    3.3 .2    3.5 .25   5.3       5.3       6.5       6.5
NS  1000.0       6.5       6.6       5.1 .3    5.1       1.1       1.1
NS  1000.0       1.1       1.1
CAL11000.0     82.99      1.75
VEL11000.0           0.000.001 0.18 0.67 0.37 0.44 0.51 0.69 1.08 1.33
VEL11000.0 0.13 0.15 0.38 0.75 1.38 0.91 0.70 0.85 0.480.001
VEL11000.0
CAL21000.0     82.95      0.84
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0     83.86      26.9
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ
```